

Installation Guide

hp StorageWorks Business Copy EVA/MA/EMA 2.3 Server

Product Version: 2.3

Fifth Edition (September 2004)

Part Number: T3032-96202

The HP StorageWorks Business Copy (BC) for enterprise virtual array (EVA), modular array (MA), and enterprise modular array (EMA) installation guide describes procedures for installing, reinstalling, updating, and removing the BC server software.



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about this guide

This installation guide provides information to help you:

- Understand BC server software installation prerequisites.
- Install and reinstall BC server software.
- Remove BC server software.
- Contact technical support for additional assistance.

“About this Guide” topics include:

- [Overview](#), page 6
- [Conventions](#), page 7
- [Getting help](#), page 8

Overview

This section covers the following topics:

- [Intended audience](#)
- [Prerequisites](#)

Intended audience

This book is intended for use by customers and HP authorized server providers. In addition to being familiar with BC, readers should also be knowledgeable with the following:

- SAN fabric configurations.
- Host operating system environments.
- Storage systems.
- Multibus configurations.

Prerequisites

Before you begin installing, refer to the *HP StorageWorks Business Copy EVA/MA/EMA 2.3 Getting Started Guide*¹ (AA–RVHPA–TE) for all prerequisite information and the *HP StorageWorks Business Copy EVA/MA/EMA 2.3 Server Release Notes* (T3032–98201) for last minute changes.

1. Hereafter referred to as BC Getting Started Guide.

Conventions

Conventions consist of the following:

- [Document conventions](#)
- [Text symbols](#)

Document conventions

This document follows the conventions in [Table 1](#).

Table 1: Document conventions

Convention	Element
Blue text: Figure 1	Cross-reference links
Bold	Menu items, buttons, and key, tab, and box names
<i>Italics</i>	Text emphasis and document titles in body text
Monospace font	User input, commands, code, file and directory names, and system responses (output and messages)
<i>Monospace, italic font</i>	Command-line and code variables
Blue underlined sans serif font text (http://www.hp.com)	Web site addresses

Text symbols

The following symbols may be found in the text of this guide. They have the following meanings:



WARNING: Text set off in this manner indicates that failure to follow directions in the warning could result in bodily harm or death.



Caution: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or data.

Tip: Text in a tip provides additional help to readers by providing nonessential or optional techniques, procedures, or shortcuts.

Note: Text set off in this manner presents commentary, sidelights, or interesting points of information.

Getting help

If you still have a question after reading this guide, contact an HP authorized service provider or access our web site: <http://www.hp.com>.

HP technical support

Telephone numbers for worldwide technical support are listed on the following HP web site: <http://www.hp.com/support/>. From this web site, select the country of origin.

Note: For continuous quality improvement, calls may be recorded or monitored.

Be sure to have the following information available before calling:

- Technical support registration number (if applicable)
- Product serial numbers
- Product model names and numbers
- Applicable error messages
- Operating system type and revision level
- Detailed, specific questions

HP storage web site

The HP web site has the latest information on this product, as well as the latest drivers. Access storage at: <http://www.hp.com/country/us/eng/prodserv/storage.html>. From this web site, select the appropriate product or solution.

HP authorized reseller

For the name of your nearest HP authorized reseller:

- In the United States, call 1-800-345-1518
- In Canada, call 1-800-263-5868
- Elsewhere, see the HP web site for locations and telephone numbers: <http://www.hp.com>.

Installation Preparation

1

This chapter provides preparation information for installing the BC server software. BC server software can either be installed on a Storage Management Appliance (SMA) or a Storage Management Server (SMS)¹.



Caution: Do not install the BC server software before reviewing the BC server platform¹ configuration. Installing BC in an unsupported configuration may cause the BC network to function improperly. For procedures on planning and verifying BC supported configurations, refer to the BC Getting Started Guide and *HP StorageWorks Business Copy EVA/MA/EMA 2.3 Network Administration Guide*² (T3032-96301).

Complete the appropriate sections below before beginning the BC server software installation:

- [SMA installation preparation](#), page 10
- [SMS installation preparation](#), page 11
- [Updating BC server software](#), page 12
- [Coordinating BC installation activities](#), page 13
- [Saving the BC network configuration and jobs](#), page 14

1. When the BC server software is installed on an SMA or SMS, this hardware platform is called the BC server platform.
2. Hereafter referred to as BC Network Administration Guide.

SMA installation preparation

To install BC server software on an SMA, determine the installation option you plan to use: CD-ROM, FTP, or Local Disk.

- CD-ROM.
 - For new installations using the BC v2.3 kit CD-ROM, go directly to “[Installing the BC Server](#)” on page 15 to start installing the BC server software.
 - For update installations, follow the procedure “[Creating a CD-ROM](#)” on page 12.
- FTP. For update installations only, follow the procedure “[Preparing for an FTP installation](#)” on page 10.
- Local Disk. For update installations only, follow the procedure “[Preparing the Local Disk installation](#)” on page 10.

Preparing for an FTP installation

If you are using the FTP option to install BC server software, prepare using the following steps:

1. Does your FTP server allow anonymous access?
 - Yes. Go to the next step.
 - No. Contact your system administrator to obtain a user name and password for use with the FTP option.
2. Create a download folder on the FTP server for the BC server SWP file.
3. Copy the `bc_23_server.swp` file to the download folder created in [step 2](#).

Before starting the installation, go to “[Coordinating BC installation activities](#)” on page 13.

Preparing the Local Disk installation

If you are using the Local Disk option to install BC server software, prepare using the following steps:

1. Copy the `bc_23_server.swp` file to a network share accessible from the SMA.
2. Open a Microsoft® Terminal Services session to connect and log in to the SMA.

Note: If Terminal Services is not available, temporarily connect a monitor, mouse, and keyboard to the SMA to complete this procedure.

3. From the SMA, connect to the network share that contains the `bc_23_server.swp` file.
 4. Copy the `bc_23_server.swp` file to `C:\swpinstallkits`.
 5. Disconnect from the share drive.
 6. Log out of the Terminal Services session or disconnect the monitor, mouse, and keyboard.
- Before starting the installation, go to “[Coordinating BC installation activities](#)” on page 13.

SMS installation preparation

To install BC server software on an SMS, determine the installation option you plan to use:

- CD-ROM. Using the BC v2.3 kit CD-ROM, go directly to “[Installing the BC Server](#)” on page 15 to start installing the BC server software.
- Local Disk. Copy the `bc_23_server.exe` file onto the SMS where BC will be installed. Then go directly to “[Installing the BC Server](#)” on page 15 to start installing the BC server software.

Updating BC server software

Complete the following procedures before upgrading to BC v2.3.

- [Downloading the BC server software](#), page 12
- [Creating a CD-ROM](#), page 12

Downloading the BC server software

The BC server software is available by download from the Business Copy product page web site.

1. Visit <http://h18000.www1.hp.com/products/storage/software/bizcopyeva/index.html>.
2. Click **software and drivers**.
3. Under **technical support - hp StorageWorks business copy eva**, click the **download software and drivers** link.
4. Under **download software & drivers - specify product name**, click the **Business Copy Upgrade UI EVA v2.3 Med/Doc Kit** to access the update download page.

Creating a CD-ROM

After downloading the file, HP recommends backing up this file and the extracted files to CD-ROMs. The CD-ROMs can be used for installation of BC server. The CD-ROMs can be kept in one or more locations in order to perform future BC installations without having to re-download the file.

HP recommends making the following CD-ROMs.

- One for archival
- One to keep with the BC server platform containing the BC server software
- One or more to retain with BC-enabled hosts
- One or more for installation

To make a CD-ROM backup:

1. Extract the individual files from the download file.
2. Create a CD-ROM containing the download file and extracted files.

Burn the installation file at the root level of the CD-ROM using your preferred CD creation software.

3. Label each CD-ROM with the month and year. For example:
"Business Copy v2.3—September 2004."

To use the CD-ROM for installation purposes, place the newly created CD-ROM in the CD drive. The CD-ROM is now ready, and the product software is positioned for installation.

Coordinating BC installation activities

Before installing BC, ensure that:

- BC server installation activities have been coordinated with other BC server platform users; coordinating with other users prevents a disruption in appliance activities.
- No BC jobs are running or “undoing” or are scheduled to run or “undo” during reinstallation.



Caution: If not properly planned and coordinated, updating the BC server can result in reduced operational capabilities and failure of BC jobs.

When ready, go to the next section.

Saving the BC network configuration and jobs

Before starting the installation, verify the installed BC server software version and save the network configuration and jobs. The procedure for this task is provided in the BC Online Help & User Guide.

When ready, go to “[Installing the BC Server](#)” on page 15 to start installing the BC server software.

Installing the BC Server

2

This chapter assumes that “[Installation Preparation](#)” starting on page 9 has been read and all steps successfully completed.

Use the following procedures to install BC server software on the desired platform.

- [SMA installation](#), page 16
- [SMS installation](#), page 19
- [Completing the installation](#), page 25

Note: See “[Installation Troubleshooting](#)” on page 37 for BC server software installation troubleshooting information.

SMA installation

This section describes how to install HP storage management applications on the SMA. One or more of the following may be required to complete this procedure:

- Product name — Business Copy Server v2.3
- Product CD-ROM
- FTP server name and path, if using the Network or FTP server installation method
- Network package file name (SWP), if using the FTP server or Appliance installation method — `bc_23_server.swp`

Note: In some cases, the display may perform an automatic reboot following a successful installation.

Install the BC server software using the following procedure:

1. Close active applications.
 - a. Close all browser windows, Microsoft Management Console (MMC) sessions, Terminal Services sessions, and Java™ applets that are open to and on the SMA.
 - b. For new installations only, insert the CD-ROM from the BC product kit into the SMA CD drive and then go to [step 2](#).
 - c. For update installations only, go to [step d](#).
 - d. Stop the BC server service by selecting **Home > Settings > Manage Tools > Business Copy**.
 - e. Click **Start** or **Stop**.
2. From a client computer, launch a Web browser and browse to the SMA using the following format:

https://<MyAppliance_name or IP Address>:2381

Note: The default appliance name for an SMA (hardware version 1.0) begins with *swma* and includes the last 6 characters of the appliance serial number.

If the SMA software was restored using the Quick Restore CD, version 2.0, the default appliance name begins with *sma* and includes all 12 characters of the appliance serial number.

The default appliance name for an SMA II begins with *sma* and includes all 12 characters of the appliance serial number.

The default appliance name for an SMA III begins with *sma* and includes all 10 characters of the appliance serial number.

If an SMA III was restored using the Quick Restore CD v2.3, the default appliance name begins with *sma* and includes all 10 characters of the appliance serial number.

3. Log in to the SMA.

If necessary, refer to the BC Network Administration Guide.
4. Click **Settings**.
5. Click **Maintenance > Install Software**.

Note: If reinstalling or updating BC server software, make sure the application is not running before proceeding. Click the **Manage Tools** link and stop the application service, if necessary.

6. Click **Next** at the bottom of the page.
 7. Select the installation option, and then click **Next**.
-

Note: Only the options presented in this procedure are supported for this product release.

CD-ROM: a. Click **Next** at the bottom of the page.

b. Select **BC 23 Server** from the drop-down list.

Continue with [step 8](#).

- FTP Server:* a. Type, or accept, the following information to establish an FTP network connection with the SMA. All entries are case-sensitive.
- For **FTP server name**, type the fully qualified domain name of the FTP server on which the `bc_23_server.swp` file is located (or enter the IP address of the server).
 - For **Full File Path**, type the default path of the download folder and the `bc_23_server.swp` file name in the text box.
For example: `/<download_folder_path>/bc_23_server.swp`
 - For **User name**, accept the default of anonymous.
If the FTP server does not accept anonymous access, a user name and password must be included. Type the user name and password in the respective fields.
- b. Click **Next** at the bottom of the page.
- c. Select **BC 23 Server** from the drop-down list.
- Continue with [step 8](#).

Local Disk: a. Select **BC 23 Server** from the drop-down list.

Note: If the BC 23 Server name does not display in the drop-down list, verify that the `bc_23_server.swp` file is located in the correct directory. See "[Preparing the Local Disk installation](#)" on page 10.

Continue with [step 8](#).

8. Click **Next** to initiate the installation.

The display states:

Installation is in progress.

Time to completion depends on the size of the application and the network connection speed. After approximately 2 to 3 minutes, the display states:

Installation is complete.

StorageWorks Business Copy - Installation Complete.

Note: In some cases, the display may indicate `Rebooting this Appliance`.

If an installation fails for any reason, the SMA does not permit a subsequent installation attempt for 1 hour following the failed attempt. Beginning an installation attempt during this 1-hour period displays an error message.

9. Click **Finish**.

10. Does a **business copy** entry exist on the **Tools** page?

- Yes. The BC server software is now installed.
- No. Return to [step 4](#) on page 16 to repeat the installation or refer to the BC Network Administration Guide for resolving issues.

See “[Completing the installation](#)” on page 25 to verify the BC server software installation.

SMS installation

This section describes how to install HP storage management applications on the SMS. One or more of the following may be required to complete this procedure:

- Product name — Business Copy Server v2.3
 - Product CD-ROM
 - IP address of SMA containing the MA/EMA storage arrays
1. Navigate to the `setup.exe` file.
 2. Double-click the `setup.exe` file to begin BC installation.

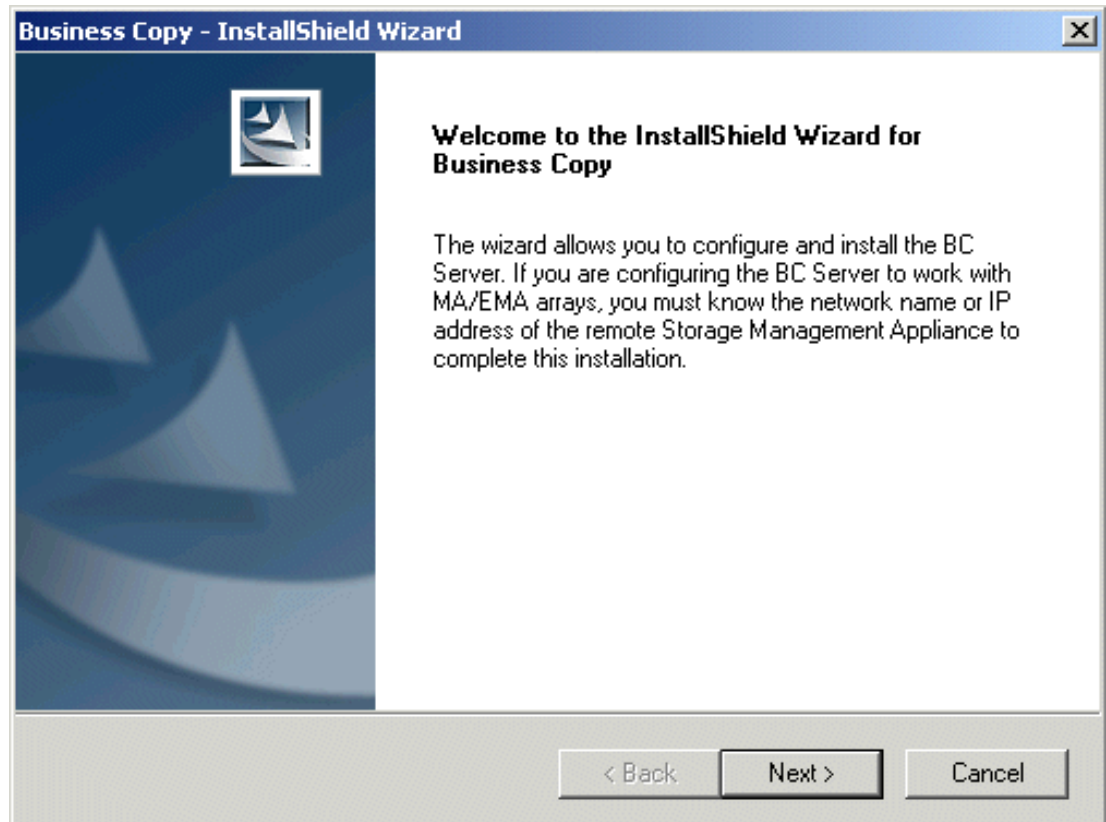


Figure 1: Introduction

3. Click **Next**.

Note: Click **Cancel** at any time during the installation to exit the installation.

4. Carefully review the BC License Agreement before continuing with the installation.

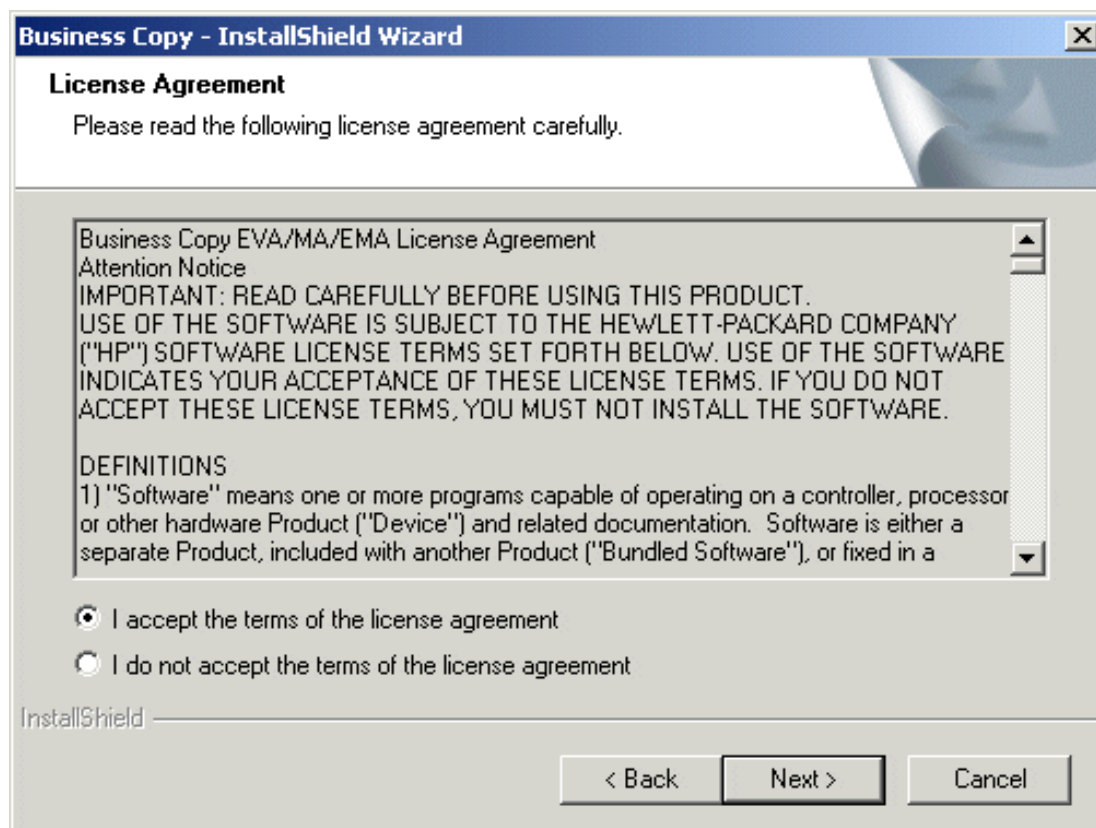


Figure 2: BC License Agreement

Note: To continue installing the BC server software, the terms in the agreement must be accepted.

5. Click **I accept the terms of the license agreement** to continue the installation.
6. Click **Next**.
7. Select the Storage array types that are to be used.

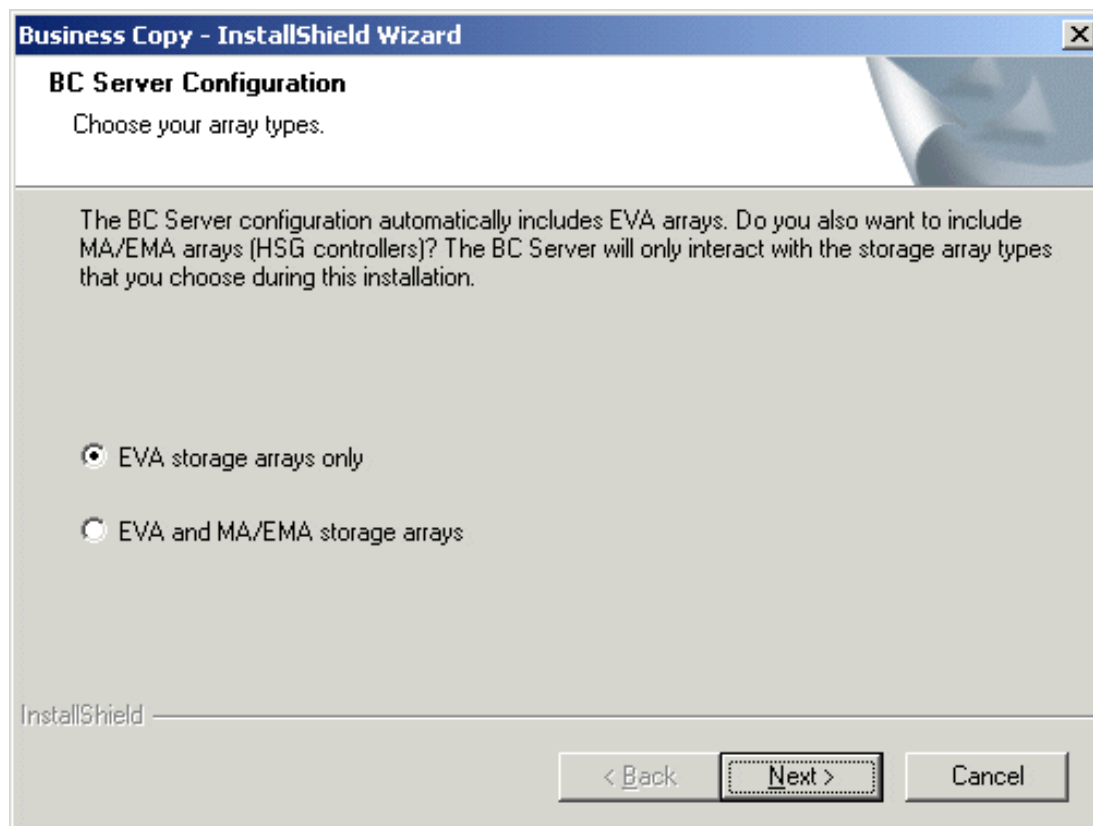


Figure 3: BC Server Configuration

8. Click **Next**.

- If only EVA storage arrays are selected, [Figure 6](#) on page 23 displays. Continue with [step 12](#).
- If EVA and MA/EMA storage arrays are selected, [Figure 4](#) displays. Continue with [step 9](#).

Note: MA/EMA storage arrays can be configured at a later date by reinstalling the BC server software.

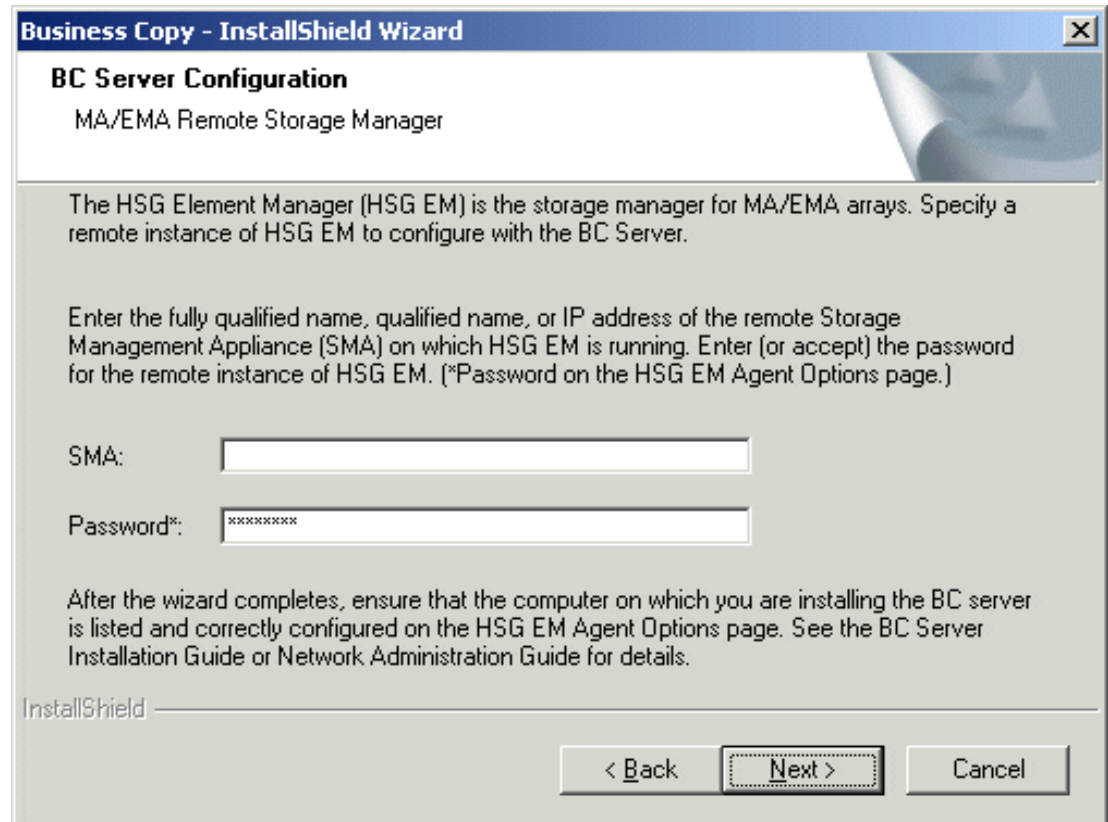


Figure 4: MA/EMA Remote Storage

9. Enter the fully qualified name, unqualified name, or IP address of the SMA on which HSG Element Manager is running.

For example:

- If the SMA name is “MyComputer” and the domain is “dept.com,” enter `MyComputer.dept.com` for a fully qualified name.
- If the fully qualified name is `MyComputer.dept.com`, enter `MyComputer` as the unqualified name.
- If the SMA IP address is “11.22.33.44,” enter `11.22.33.44` for the IP address.

10. Enter the password for the remote instance of HSG Element Manager.

11. Click **Next**.

After entering the SMA name or IP address, a check is performed to verify communication:

This check allows an incorrect SMA name to be corrected. The check also provides the opportunity to continue the BC host agent installation, in the event that the LAN is down or the SMA is offline.

- If this check fails, [Figure 5](#) displays.
 - Click **Yes** to continue the installation using the name entered in [step 9](#) ([Figure 4](#) displays).
 - Click **No** to display [Figure 6](#) and continue the installation at [step 11](#).

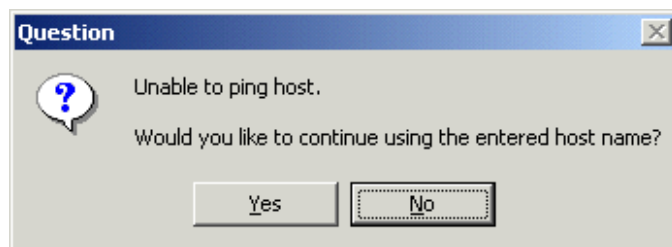


Figure 5: SMS name failure message

- If the check succeeds, [Figure 6](#) displays.

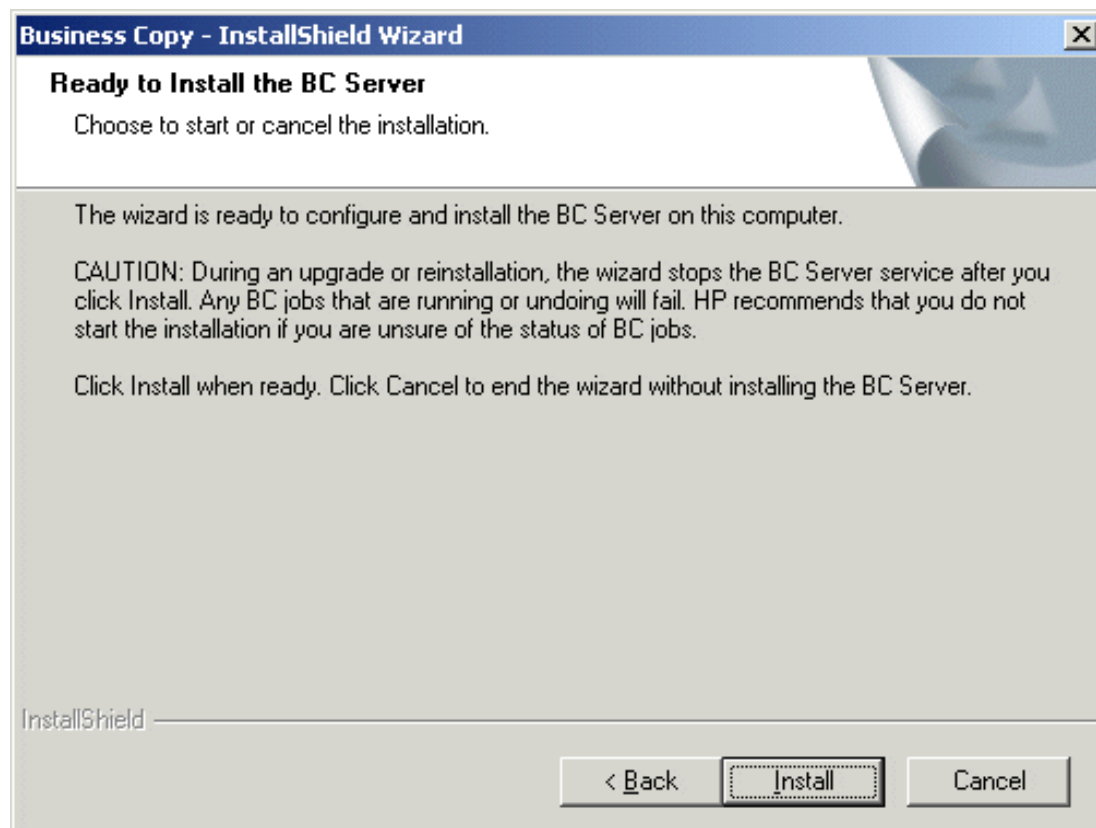


Figure 6: Installation

12. Click **Install**.

An installation process window briefly displays as the BC server software installs.

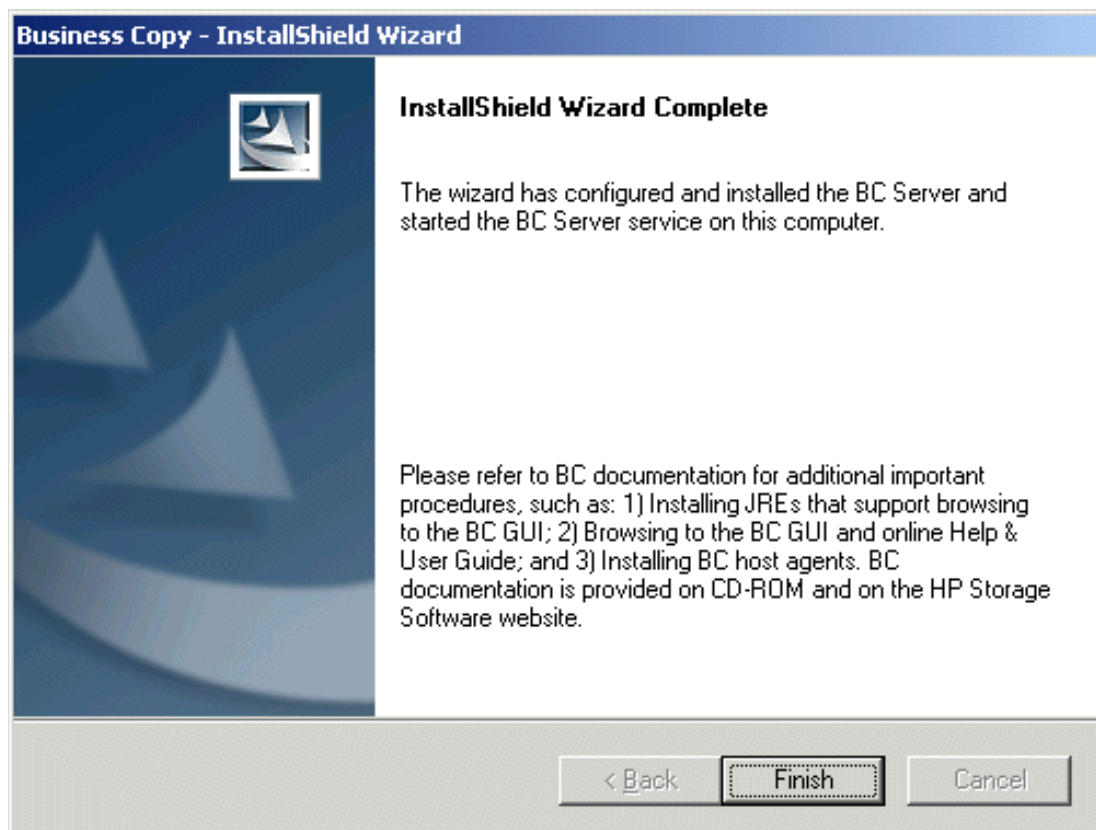


Figure 7: Install Complete

13. Click **Finish**.

14. Verify that the BC server software is installed.

- a. Select **Start > Settings > Control Panel**.
- b. Double-click **Add/Remove Programs**.
- c. Verify that **BC Server** is listed.
 - Yes. The BC server software is now installed.
 - No. Repeat the installation or refer to the BC Network Administration Guide for resolving issues.

See "[Completing the installation](#)" on page 25 to complete the installation.

Completing the installation

HP recommends browsing to the BC GUI to verify a successful installation. If access to MA/EMA storage systems is expected, remote access to these storage systems must be established through the HSG Element Manager before these resources display in the BC GUI.

Completing the installation topics include:

- [Establishing storage manager remote access](#)
- [Accessing the BC GUI](#)
- [Registering BC with HP Systems Insight Manager on an SMS](#)

Establishing storage manager remote access

Enable remote access for the HSG Element Manager using the following procedure.

Note: Command View EVA *does not* require manual remote access enabling. This storage manager continuously monitors a communication port and allows any BC server platform that supplies a valid password to access the managed storage resources.

1. Browse to the HSG Element Manager GUI on the SMA.
2. Click **Options**.
3. Click **Agent Options**.
4. Under Add Client in the **Host Name** box, enter the network name or IP address of the BC server platform.

Note: For flexibility, HP recommends adding three entries for the BC server platform: the fully qualified name, unqualified name, and IP address.

5. Click **Agent Config**.
6. Click **Submit**.

The network name or IP address displays in the Client window.

7. Stop and restart BC server service.
Refer to the BC Network Administration Guide for instructions, if necessary.

Accessing the BC GUI

Complete the BC server installation using the following procedure:

1. Close all open BC browser sessions.
Closing and restarting the browser allows the new Java version installation requirement to be recognized.
2. From a client computer, launch a Web browser and browse to the BC server platform, using the following format:

https://<MyAppliance/MyComputer or IP_Address>:2381

3. Log in to the BC server platform.
Refer to the BC Network Administration Guide for the browsing and login procedure, if necessary.
4. Click **Settings**.
5. Click **Manage Tools**.
Verify that the Business Copy row displays the correct version number (2.30.0).
6. Click **Tools**.
7. Click **business copy**.
The BC GUI displays.
8. If necessary, install the required Java plug-in on the browsing computer.
Refer to the *HP StorageWorks JREserver 1.0 Installation Guide* (AA-RVHQA-TE) to install the JREserver and the BC Network Administration Guide for a supported browser/JRE combination by OS.
9. Verify the operation of the BC GUI.
10. Click **Resources**.
11. Review the Resources page to verify that available resources are visible.
All EVA storage systems should be displayed. If remote access is granted for MA/EMA storage systems, these resources should also be displayed.

Note: The Resources page takes awhile to update, especially in large configurations. If available resources are not visible within 30 minutes, refer to the BC Network Administration Guide for troubleshooting information.

12. Review new features, changes, and added help topics in the BC Online Help & User Guide, as desired.

To add BC-enabled hosts to this BC environment or update existing BC-enabled hosts, refer to the OS-specific BC host agent installation guides.

Registering BC with HP Systems Insight Manager on an SMS

BC does not register with Insight Manager when installed on a SMS. To obtain a BC link within the Insight Manager GUI, BC must be manually registered. To manually register BC with Insight Manager, complete the following:

1. Run the following commands from a DOS window on the SMS:

```
cd C:\Program Files\HP\System Insight Manager  
mxtool -af tools\bc.xml
```

2. Verify that a **business copy** link displays in the Insight Manager GUI under **Tools > Storage Management**.

Reinstalling the BC Server

3

This chapter describes how to reinstall the BC server. Reinstallation may be necessary due to BC server platform failure or file corruption.

Major topics in this chapter include:

- [Reinstalling the BC server \(SMA\)](#), page 28
- [Reinstalling the BC server \(SMS\)](#), page 29

Reinstalling the BC server (SMA)

To complete this procedure, the BC server software CD-ROM that came in the BC v2.3 kit or the CD-ROM created using “[Creating a CD-ROM](#)” on page 12 is required.

1. Coordinate the BC server using the instructions in “[Coordinating BC installation activities](#)” on page 13.
2. Reinstall the BC server using the instructions in “[SMA installation](#)” on page 16.

Reinstalling the BC server (SMS)

A reinstallation installs only the Business Copy Server v2.3 software. To complete this procedure, the BC server software CD-ROM that came in the BC v2.3 kit or the CD-ROM created using “[Creating a CD-ROM](#)” on page 12 is required.

1. Coordinate the BC server using the instructions in “[Coordinating BC installation activities](#)” on page 13.
2. Navigate to the `setup.exe` file.
3. Double-click `setup.exe` file to begin BC installation.

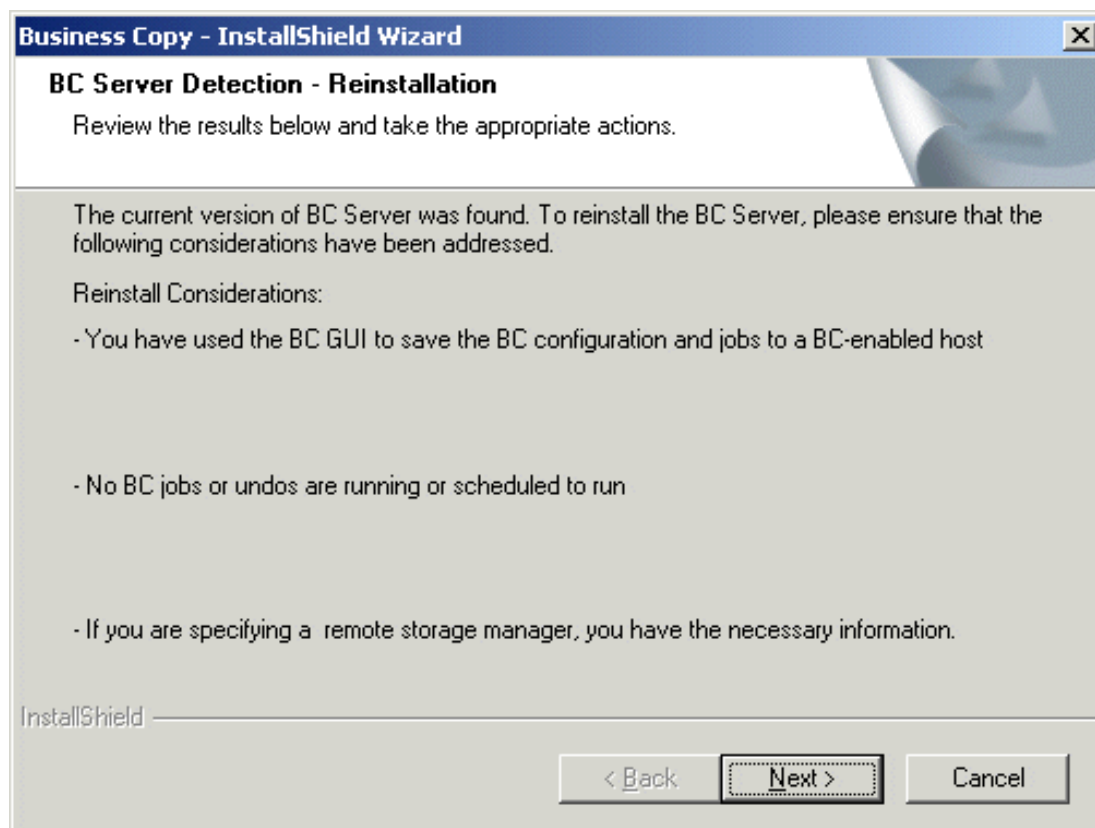


Figure 8: BC Reinstallation window

4. Click **Next**.
Continue with [step 7](#) on page 20.

Uninstalling the BC Server Software

4

This chapter describes how to uninstall software from the BC server platform.

Major topics in this chapter include:

- [BC server software removal from an SMA](#), page 32
- [BC server software removal from an SMS](#), page 34

BC server software removal from an SMA

The application name (BC 23 Server) is required to complete this procedure.



Caution: If the BC server software is being removed from the SMA in preparation to rename the SMA, make sure to perform a BC configuration backup using the BC Configuration Save/Reload feature.

Removing BC without completing a backup of the BC configuration beforehand might cause a loss of BC data, if the last backup is out of date with the current BC configuration.

Refer to the BC Network Administration Guide for BC Configuration Save/Reload information.

To remove this software, use the following procedure:

Note: In order to avoid errors, do not uninstall the BC server software using the Windows® Add/Remove Programs feature. Always use the SMA software GUI to uninstall the BC server software.

- 1. Close all browser windows, MMC sessions, Terminal Services sessions, and Java applets that are open to and on the desired SMA.

Note: Closing these items ensures that no remnant files are left in cache memory following the BC server removal. Failure to perform this action might interfere with the software removal.

- 2. From a client computer, launch a Web browser and browse to the SMA using the following format:
`https://<MyAppliance or IP Address>:2381`
- 3. Log in to the SMA.
Refer to the BC Network Administration Guide, if necessary.
- 4. Click **Settings**.
- 5. Click **Maintenance**.
- 6. Click the **Remove Software** option.

Remove Application

Select an application from the list to REMOVE

Search: Application Name <input type="text"/> <input type="button" value="Go"/>		
Application Name	Version Number	Tasks
Business Copy Server	2.30.0	<input type="button" value="Remove..."/>

Figure 9: Remove Application sample display

- 7. Select the application name of the software to remove.
- 8. Click **Remove**.
A remove application confirmation question displays.



Caution: Clicking **OK** in [step 9](#) initiates the removal of BC server software from the SMA.

9. Click **OK** to remove the selected application; click **Cancel** to redisplay [Figure 9](#) on page 32 and continue with [step 7](#).

Clicking **OK** displays the following message:

Application has been removed.
See below for details (if any).

StorageWorks Business Copy - Uninstallation Complete.

10. Verify that the **business copy** entry previously displayed on the **Tools** page has been removed.

BC server software removal from an SMS

To remove this software, use the following procedure.

1. Select **Start > Settings > Control Panel**.

2. Double-click **Add/Remove Programs**.

The **Add/Remove Programs** dialog displays.

3. Select **Business Copy Server** from the list.

4. Click **Change/Remove**.

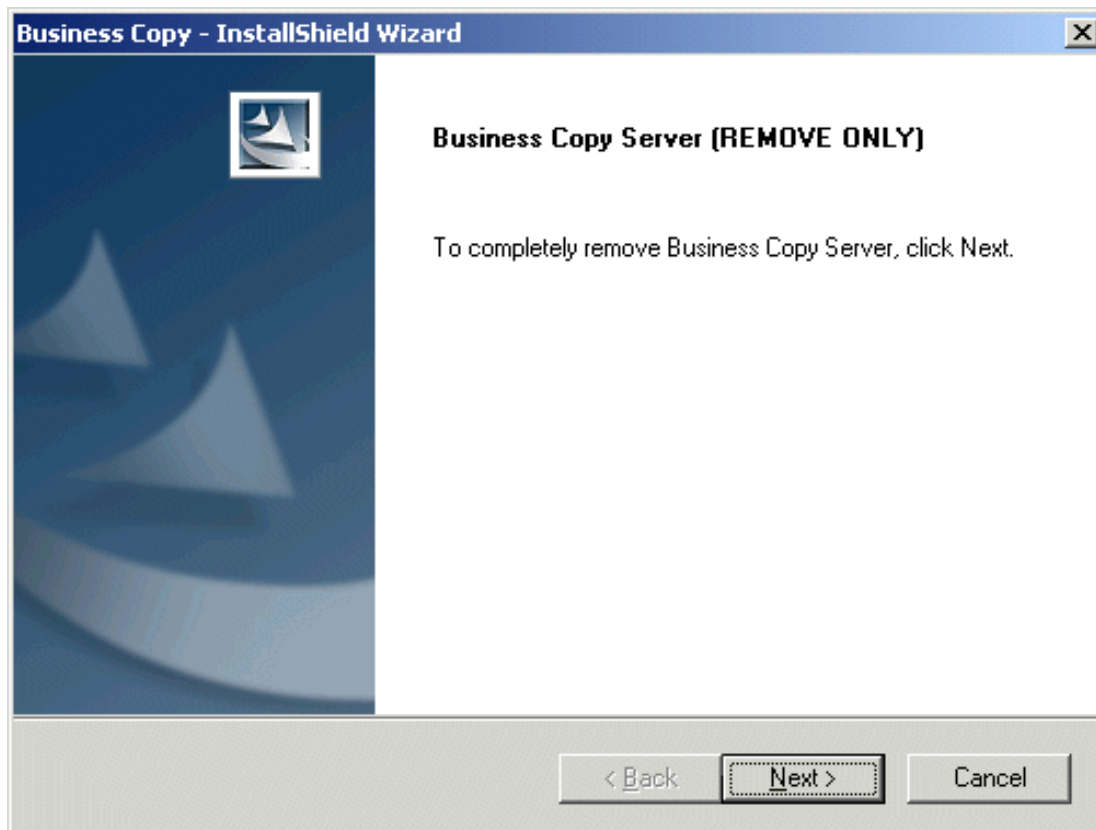


Figure 10: BC server removal window

5. Click **Next**.

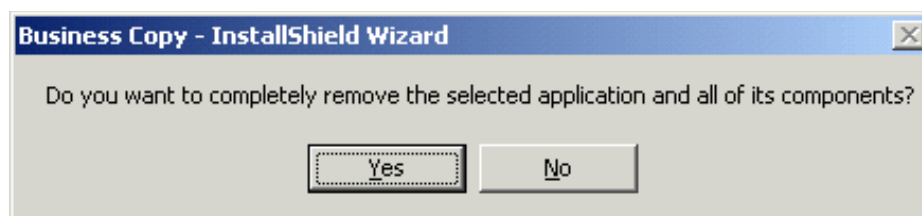


Figure 11: BC removal confirmation

6. Click **Yes**.

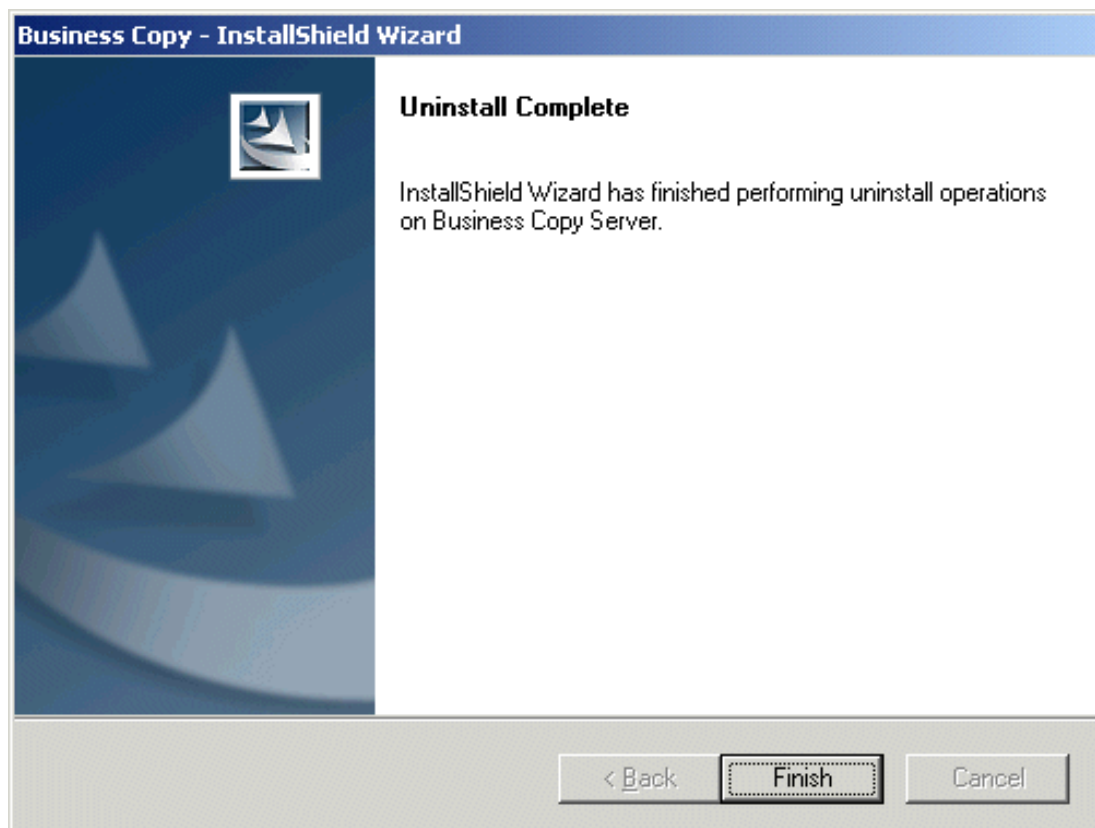
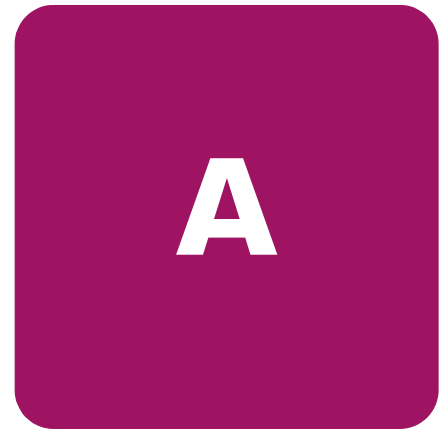


Figure 12: BC removal complete

7. Click **Finish**.

The BC server software is now uninstalled.

Installation Troubleshooting



This chapter describes known problems and suggested resolutions for troubleshooting the BC server installation. Topics include:

- [Failure of files to register during reinstall or unregister during updating](#)
- [Command View EVA not installed](#)

Failure of files to register during reinstall or unregister during updating

Description: The SMA installation returns with an `Installation Aborted` error message that states `...files did not self-register or unregister`. The most likely cause is that a BC file might be locked on this SMA.

Resolution: To resolve this issue, stop the BC service and repeat the BC server installation.

Command View EVA not installed

Description: BC server software does not install on an SMS if Command View EVA is not previously installed and running.

Resolution: Install Command View EVA on the SMS and make sure the application is running, and then install the BC server software.

glossary

This glossary defines terms that are used in this guide or are related to BC.

BC environment

A SAN environment in which Business Copy replication features are available. BC features can be available through various means, such as: storage managers, BC server and jobs, BC host agents, command line interfaces, and script files.

BC network

The portion of a SAN that consists of a BC server connected via LAN to BC-enabled host computers.

BC server platform

An SMA or SMS with BC server software installed.

See also [Storage Management Appliance](#) and [Storage Management Server](#).

Command View EVA

A Web-based storage environment manager that enables users to configure and monitor EVA controllers. This storage manager resides on any supported BC server platform.

host

In networked storage, a computer that can perform I/O with a storage array. In general networking, any computer on a network that provides a service.

host agent

In a client/server system, a program that performs information gathering or processes tasks on behalf of a client or server. Agents often communicate with other agents to perform a collective task on behalf of the user.

host, BC-enabled

A host computer that has BC host agent software installed. Compare to standard host.

instance

The presence of a program or set of related programs in a computer or storage system.

job (BC job)

A file created by BC that represents a user request to perform a task or series of tasks. For example, the BC job named `sales_daily_backup` might:

1. Replicate virtual disks to create BCVs.
2. Mount the BCV on a server.
3. Start the tape backup of the BCV. Jobs can be created and run from the GUI, the BC command line (EVMCL), script files, or a scheduler.

OpenView

An HP line of software products that provides storage management solutions, data protection and recovery, automatic performance tuning, storage virtualization, and other features for multivendor storage environments.

SAN

Storage Area Network. A dedicated, high-speed network of storage devices that are available to servers on a LAN or WAN. As storage devices are added to the SAN, they become accessible to the servers in the larger network.

server

A computer or program that provides a service to other computers in a client/server system. Servers often run continuously, waiting for requests from clients.

service

In Windows, a program or process that conforms to the Microsoft Windows Service Control Manager specification. Windows services generally perform a low level function without being requested by the user.

BC specific. The BC server and the BC host agent for Windows are installed as services. As a service, BC does not affect the Windows user interface (desktop) or require that a user be logged on.

SMA

See [Storage Management Appliance](#).

SMS

See [Storage Management Server](#).

storage manager

A Web-based storage environment manager that enables a user to configure and monitor MA/EMA or EVA controllers. The HSG Element Manager resides on the Storage Management Appliance (SMA); Command View EVA resides on the BC server platform.

Storage Management Appliance

SMA. A host-independent server product designed to connect directly to the SAN fabric. The SMA provides a centralized point for managing and monitoring SAN elements, including HP switches and storage arrays. SMA software installed on the appliance provides a GUI interface for accessing the monitored SAN environment. The SMA software also provides a launch site for a variety of value-added HP OpenView applications and provides navigation links to directly manage storage components on the SAN.

Storage Management Server

SMS. Any HP supported hardware-software platform that is not connected to the SAN fabric and that does not serve as a storage host. SMS software installed on a platform provides a GUI interface for accessing the monitored SAN environment.

StorageWorks

An HP line of hardware and software storage solutions that provides storage management solutions, data protection and recovery, automatic performance tuning, storage virtualization, and other features for multivendor storage environments.

unit (MA/EMA only)

In StorageWorks storage systems, an identifier that the controller uses when a container is mounted on a host computer. For example, the unit identifier DI could represent a RAID 0+1 striped mirror set that is mounted on a host computer. StorageWorks disk units begin with the letter D and tape units begin with the letter T.

virtual disk (EVA only)

In StorageWorks storage systems, a simulated disk that is created from physical disks in a storage array for use by hosts.

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